

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
22 March 2001 (22.03.2001)

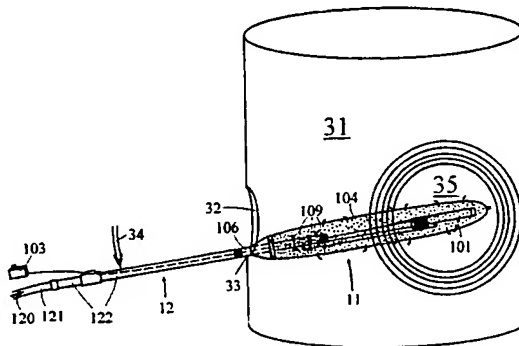
PCT

(10) International Publication Number
WO 01/20239 A1

- (51) International Patent Classification: F27D 23/02, INC. (NAIS) [US/US]; 1240 Saratoga Road, Ballston Spa, NY 12020 (US).
1/16, B08B 7/00, F27D 1/12, F28G 7/00
- (21) International Application Number: PCT/US99/20568
- (22) International Filing Date: 13 September 1999 (13.09.1999)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 09/394,377 10 September 1999 (10.09.1999) US
- (63) Related by continuation (CON) or continuation-in-part (CIP) to earlier applications:
US 09/394,377 (CON)
Filed on 10 September 1999 (10.09.1999)
US 5,769,034 (CIP)
Filed on 23 June 1998 (23.06.1998)
US 09/341,395 (CIP)
Filed on 14 January 1998 (14.01.1998)
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- (81) Designated States (national): AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, FR, GB, GD, GE, GH, GM, GR, GU, HK, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, ME, MG, MK, MN, MU, MV, MW, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PK, PL, PT, RU, SC, SD, SE, SG, SI, SK, SL, SM, SN, SR, ST, SV, SW, SY, TD, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VE, VU, WO, XG, YU, ZA, ZM, ZW.

[Continued on next page]

(54) Title: DEVICE, SYSTEM AND METHOD FOR ON-LINE EXPLOSIVE DESLAGGING



(57) Abstract: A device, system and method permitting on-line explosives-based cleaning and deslagging of a fuel burning facility (31) such as a boiler, furnace, incinerator, or scrubber. A coolant, such as ordinary water, is delivered to the explosives (101) to prevent them from detonating due to the heat of the on-line facility. Thus, controlled, appropriately-timed detonation can be initiated as desired, and boiler scale and slag is removed without the need to shut down or cool down the facility. Alternative preferred embodiments include, but are not limited to: (1) using a non-liquid coolant, such as compressed air or other non-flammable gas, in place of the aforementioned liquid coolant; (2) using one or more highly-heat-resistant insulating materials (502, 504, 506) to insulate the explosive and detonator cap, in place of or in addition to the aforementioned liquid or gaseous coolants; and (3) preparing and using a highly-heat-resistant explosive device (101), in place of or in addition to the aforementioned liquid or gaseous coolants, and/or the aforementioned highly-heat-resistant insulating materials (502, 504, 506), in any desired combination.



LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT,
RO, RU, SD, SE, SG, SI, SK, SK (utility model), SL, TJ,
TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW.

- (84) **Designated States (regional):** ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published:

- *With international search report.*
- *With amended claims and statement.*

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